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OM protein - protein search, using sw model

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(without alignments)  
189.362 Million cell updates/sec

Title: US-09-824-787B-2

Sequence: 1 MSSEPCQTSVAPPEEVEPG.....ASNGETLEKITSRPPCVIL 115

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*

1: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*

2: /cgn2\_6/ptodata/2/pubppaa/PTCT\_NEW\_PUB pep:\*

3: /cgn2\_6/ptodata/2/pubppaa/US06\_NEW\_PUB pep:\*

4: /cgn2\_6/ptodata/2/pubppaa/US06\_PUBCOMB pep:\*

5: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB pep:\*

6: /cgn2\_6/ptodata/2/pubppaa/US07\_PUBCOMB pep:\*

7: /cgn2\_6/ptodata/2/pubppaa/PTCTUS\_PUBCOMB pep:\*

8: /cgn2\_6/ptodata/2/pubppaa/US08\_PUBCOMB pep:\*

9: /cgn2\_6/ptodata/2/pubppaa/US09\_NEW\_PUB pep:\*

10: /cgn2\_6/ptodata/2/pubppaa/US09\_PUBCOMB pep:\*

11: /cgn2\_6/ptodata/2/pubppaa/US10\_NEW\_PUB pep:\*

12: /cgn2\_6/ptodata/2/pubppaa/US10\_PUBCOMB pep:\*

13: /cgn2\_6/ptodata/2/pubppaa/US60\_NEW\_PUB pep:\*

14: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	597	100.0	115	9	US-09-824-787B-2
2	597	100.0	131	10	US-09-925-301-966
3	80	13.4	137	9	US-09-374-046A-96
4	80	13.4	146	9	US-09-892-877-301
5	80	13.4	146	9	US-09-948-783-314
6	69	11.6	874	9	US-10-163-214-13
7	69	11.6	915	9	US-10-163-214-6
8	68.5	11.5	425	9	US-09-860-670-105
9	68.5	11.5	425	10	US-09-764-877-1163
10	68	11.4	909	9	US-10-163-214-2
11	67	11.2	228	9	US-09-738-626-6207
12	67	11.2	1379	10	US-09-862-179A-44
13	66.5	11.1	772	9	US-09-905-291A-339
14	66.5	11.1	772	9	US-09-902-853-339
15	66.5	11.1	772	9	US-09-907-824-339
16	66.5	11.1	772	9	US-09-907-841-339
17	66.5	11.1	772	9	US-09-904-011-339
18	66.5	11.1	772	9	US-09-906-742-339
19	66.5	11.1	772	9	US-09-906-838-339

20	66.5	11.1	772	9	US-09-907-613-339	Sequence 339, App
21	66.5	11.1	772	9	US-09-907-942-339	Sequence 339, App
22	66.5	11.1	772	9	US-09-904-820-339	Sequence 339, App
23	66.5	11.1	772	9	US-09-904-859-339	Sequence 339, App
24	66.5	11.1	772	9	US-09-904-204-339	Sequence 339, App
25	66.5	11.1	772	9	US-09-904-786-339	Sequence 339, App
26	66.5	11.1	772	9	US-09-906-646-339	Sequence 339, App
27	66.5	11.1	772	9	US-09-906-700-339	Sequence 339, App
28	66.5	11.1	772	9	US-09-902-903-339	Sequence 339, App
29	66.5	11.1	772	9	US-09-903-749A-339	Sequence 339, App
30	66.5	11.1	772	9	US-09-902-736-339	Sequence 339, App
31	66.5	11.1	772	9	US-09-902-736-339	Sequence 339, App
32	66.5	11.1	772	9	US-09-904-119-339	Sequence 339, App
33	66.5	11.1	772	9	US-09-904-956-339	Sequence 339, App
34	66.5	11.1	772	9	US-09-907-794-339	Sequence 339, App
35	66.5	11.1	772	9	US-09-902-692-339	Sequence 339, App
36	66.5	11.1	772	9	US-09-903-520-339	Sequence 339, App
37	66.5	11.1	772	9	US-09-903-943-339	Sequence 339, App
38	66.5	11.1	772	9	US-09-904-462-339	Sequence 339, App
39	66.5	11.1	772	9	US-09-905-056-339	Sequence 339, App
40	66.5	11.1	772	9	US-09-907-925-339	Sequence 339, App
41	66.5	11.1	772	9	US-09-904-553-339	Sequence 339, App
42	66.5	11.1	772	9	US-09-905-381-339	Sequence 339, App
43	66.5	11.1	772	9	US-09-909-064-339	Sequence 339, App
44	66.5	11.1	772	9	US-09-905-088-339	Sequence 339, App
45	66.5	11.1	772	9	US-09-907-575-339	Sequence 339, App

## ALIGNMENTS

RESULT 1

US-09-824-787B-2

Sequence 2, Application US/09824787B

Patent No. US20020155447A1

GENERAL INFORMATION:

APPLICANT: Evans, Elizabeth E.

APPLICANT: Zauderer, Maurice

APPLICANT: Borrello, Melinda A.

TITLE OR INVENTION: A Gene Differentially Expressed in Breast and

FILE REFERENCE: 1821.0040001

CURRENT APPLICATION NUMBER: US/09/824,787B

CURRENT FILING DATE: 2001-04-04

PRIOR APPLICATION NUMBER: 60/154,463

PRIOR FILING DATE: 2000-04-04

NUMBER OF SEQ ID NOS: 147

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 115

TYPE: PRT

ORGANISM: Homo sapiens

US-09-824-787B-2

Query Match 100.0%; Score 597; DB 9; Length 115;

Best Local Similarity 100.0%; Pred. NO. 3.4e-55;

Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 61 GTGAFELINGQVAFKFLKNGCFPEYKDLIAIRASNGETLEKITSRPPCVIL 115

DB 1 MSSEPCQTSVAPPEEVEPGSGVRIIVEYCEPCGFATYIELASAVKQYPGIFESRLG 60

DB 61 GTGAFELINGQVAFKFLKNGCFPEYKDLIAIRASNGETLEKITSRPPCVIL 115

DB 61 GTGAFELINGQVAFKFLKNGCFPEYKDLIAIRASNGETLEKITSRPPCVIL 115

RESULT 2

US-09-925-301-966

Sequence 966, Application US/09925301

Patent No. US20020052308A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

```

: TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
: FILE REFERENCE: PA106
: CURRENT APPLICATION NUMBER: US/09/925,301
: CURRENT FILING DATE: 2001-08-10
: PRIOR APPLICATION NUMBER: PCT/US00/05882
: PRIOR FILING DATE: 2000-03-08
: PRIOR APPLICATION NUMBER: 60/124,270
: PRIOR FILING DATE: 1999-03-12
: NUMBER OF SEQ ID NOS: 1694
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO: 966
: LENGTH: 131
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-925-301-966

Query Match
Best Local Similarity 100.0%; Score 597; DB 10; Length 131;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MSGEGQTSVAPPEVEPGSGVRIVVEYCEPCGFATYELASVKEQYGIETESRLG 60
    ||||| 17 MSGEGQTSVAPPEVEPGSGVRIVVEYCEPCGFATYELASVKEQYGIETESRLG 76
    |||||

Oy 61 GTGAFEIINGQLVFSKLENGCFPEKDLIAIRASNGETLERITNSRPPCVIL 115
    ||||| 77 GTGAFEIINGQLVFSKLENGCFPEKDLIAIRASNGETLERITNSRPPCVIL 131
    |||||

RESULT 3
US-09-374-046A-96
: Sequence 96, Application US/09374046A
: Publication No. US20030096951A1
: GENERAL INFORMATION:
: APPLICANT: Jacoby, Kenneth
: APPLICANT: McCoy, John M.
: APPLICANT: Lavalley, Edward R.
: APPLICANT: Collins-Racie, Lisa A.
: APPLICANT: Evans, Cheryl
: APPLICANT: Werberg, David
: APPLICANT: Treacy, Maurice
: APPLICANT: Agostino, Michael J.
: APPLICANT: Steininger II, Robert J.
: APPLICANT: Spaulding, Vikki
: APPLICANT: Wong, Gordon G.
: APPLICANT: Clark, Hilary
: APPLICANT: Fechtel, Kim
: APPLICANT: Genetics Institute, Inc.
: TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
: FILE REFERENCE: GI 6075-83A
: CURRENT APPLICATION NUMBER: US/09/374,046A
: NUMBER OF SEQ ID NOS: 240
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO: 96
: LENGTH: 137
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-374-046A-96

Query Match
Best Local Similarity 13.4%; Score 80; DB 9; Length 137;
Matches 17; Conservative 9; Mismatches 13; Indels 0; Gaps 0;

Oy 55 IESRLGTGAFEIINGQLVFSKLENGCFPEKDLIAIR 93
    ||||| 81 IENQCMSTGAFEITLNDVPVMSKLESCHLPMSQOLVQIL 119
    |||||

RESULT 4
US-09-892-877-301
: Sequence 301, Application US/09892877
: Publication No. US20030077809A1
```

```

: GENERAL INFORMATION:
: APPLICANT: Ruben et. al.
: TITLE OF INVENTION: 97 Human secreted proteins
: FILE REFERENCE: P2028P1
: CURRENT APPLICATION NUMBER: US/09/892,877
: CURRENT FILING DATE: 2001-06-28
: PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/437,558
: PRIOR FILING DATE: EARLIER FILING DATE: 1999-11-10
: NUMBER OF SEQ ID NOS: 461
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO: 301
: LENGTH: 146
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-892-877-301

Query Match
Best Local Similarity 13.4%; Score 80; DB 9; Length 146;
Matches 17; Conservative 9; Mismatches 13; Indels 0; Gaps 0;

Oy 55 IESRLGTGAFEIINGQLVFSKLENGCFPEKDLIAIR 93
    ||||| 90 IENQCMSTGAFEITLNDVPVMSKLESCHLPMSQOLVQIL 128
    |||||

Db 90 IENQCMSTGAFEITLNDVPVMSKLESCHLPMSQOLVQIL 128

RESULT 5
US-09-948-783-314
: Sequence 314, Application US/09948783
: Publication No. US20030100051A1
: GENERAL INFORMATION:
: APPLICANT: Ruben et. al.
: TITLE OF INVENTION: 97 Human secreted proteins
: FILE REFERENCE: P2028P2
: CURRENT APPLICATION NUMBER: US/09/948,783
: CURRENT FILING DATE: 2001-09-10
: PRIOR APPLICATION NUMBER: 60/231,846
: PRIOR FILING DATE: 2000-09-11
: PRIOR APPLICATION NUMBER: 09/892,877
: PRIOR FILING DATE: 2001-06-28
: PRIOR APPLICATION NUMBER: 09/437,558
: PRIOR FILING DATE: 1999-11-10
: PRIOR APPLICATION NUMBER: PCT/US99/09847
: PRIOR FILING DATE: 1999-05-06
: PRIOR APPLICATION NUMBER: 60/085,093
: PRIOR FILING DATE: 1998-05-12
: PRIOR APPLICATION NUMBER: 60/085,094
: PRIOR FILING DATE: 1998-05-12
: PRIOR APPLICATION NUMBER: 60/085,105
: PRIOR FILING DATE: 1998-05-12
: PRIOR APPLICATION NUMBER: 60/085,180
: PRIOR FILING DATE: 1998-05-12
: PRIOR APPLICATION NUMBER: 60/085,927
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,906
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,924
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,922
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,921
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,923
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,925
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,928
: PRIOR FILING DATE: 1998-05-18
: PRIOR APPLICATION NUMBER: 60/085,920
: PRIOR FILING DATE: 1998-05-18
: NUMBER OF SEQ ID NOS: 465
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO: 314
: LENGTH: 146
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TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-948-783-314

Query Match  
Best Local Similarity 13.4%; Score 80; DB 9; Length 146;  
Matches 17; Conservative 9; Mismatches 13; Indels 0; Gaps 0;

QY 55 ISRLGTCGAFETLNGOLVFSKLENGGPPYKDLIEAI 93  
DB 90 IEMCKMSTGAFETLNDVPMVSKLESCHLPSMQOLVQIL 128

RESULT 6  
US-10-163-214-13  
Sequence 13, Application US/10163214  
Publication No. US20030097688A1  
GENERAL INFORMATION:

APPLICANT: Allen, Stephen M.  
APPLICANT: Brogile, Karen E.  
APPLICANT: Butler, Karlene H.  
APPLICANT: Thorpe, Catherine J.  
TITLE OF INVENTION: Starch Synthase Isoform V  
FILE REFERENCE: BB1520 US NA  
CURRENT APPLICATION NUMBER: US/10/163,214  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: 60/297,099  
PRIOR FILING DATE: 2001-06-08  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: Microsoft Office 97  
SEO ID NO: 13  
LENGTH: 874  
TYPE: PRT  
ORGANISM: Vigna unguiculata  
US-10-163-214-13

Query Match  
Best Local Similarity 11.6%; Score 69; DB 9; Length 874;  
Matches 22; Conservative 14; Mismatches 34; Indels 12; Gaps 3;

QY 21 SGVRIVEYCEPGFATYLELASAVKEQYPIGIESRIGTCGAFETLNGOLVFSKLEN 80  
DB 75A SMFIIPSTFEPGCG-----LTOMISMRYGAIPIARKTGLNDVDFDDTIPSPFRN 806  
QV 81 GGFPY---EKDLIEAIRASN 98  
L 807 -GFTFLMADEKGINDALVRAIN 827

RESULT 7  
US-10-163-214-6  
Sequence 6, Application US/10163214  
Publication No. US20030097688A1  
GENERAL INFORMATION:  
APPLICANT: Allen, Stephen M.  
APPLICANT: Brogile, Karen E.  
APPLICANT: Butler, Karlene H.  
APPLICANT: Thorpe, Catherine J.  
TITLE OF INVENTION: Starch Synthase Isoform V  
FILE REFERENCE: BB1520 US NA  
CURRENT APPLICATION NUMBER: US/10/163,214  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: 60/297,099  
PRIOR FILING DATE: 2001-06-08  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: Microsoft Office 97  
SEO ID NO: 6  
LENGTH: 915  
TYPE: PRT  
ORGANISM: Oryza sativa  
US-10-163-214-6

Query Match 11.6%; Score 69; DB 9; Length 915;

Best Local Similarity 28.4%; Pred. No. 1e+02;  
Matches 23; Conservative 11; Mismatches 37; Indels 10; Gaps 2;

QY 21 SGVRIVEYCEPGFATYLELASAVKEQYPIGIESRIGTCGAFETLNGOLVFSKLEN 80  
DB 797 SDMFIVPSMFEPCG-----LTOMISMRYGAIPIARKTGLNDVDFDDTIPRELNR 849

QY 81 G---GFPYKDLIEAIRASN 98  
DB 850 GFTFVHPDEKALSCAMERAFN 870

RESULT 8  
US-09-860-670-105  
Sequence 105, Application US/09860670  
Patent No. US20020165137A1  
GENERAL INFORMATION:

APPLICANT: Ruben et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PA127P1  
CURRENT APPLICATION NUMBER: US/09/860,670  
CURRENT FILING DATE: 2001-05-21  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 289  
SOFTWARE: Patentln Ver. 2.0  
SEO ID NO: 105  
LENGTH: 425  
TYPE: PRT  
ORGANISM: Homo sapiens

FEATURE:  
NAME/KEY: SITE  
LOCATION: (140)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (196)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (351)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (368)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-860-670-105

Query Match  
Best Local Similarity 11.5%; Score 68.5; DB 9; Length 425;  
Matches 22; Conservative 11; Mismatches 46; Indels 7; Gaps 2;

QY 3 GEPGQTSVAPPEVEYSGVRIVEY-----CEPGFATYLELASAVKEQYPIGIES 57  
DB 291 GPPGAGDPDPSPGADPSRGARICGIFDQASAECCFYADYLARARLAGLAGEEEF 350  
QY 58 KLGTGAFETL--EINGOLVFSKLENG 81  
DB 351 XLEGLEVMVDVFLRFSGLXLFRAVERPG 376

RESULT 9  
US-09-764-877-1163  
Sequence 1163, Application US/09764877  
Patent No. US20020147140A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC005  
CURRENT APPLICATION NUMBER: US/09/764,877  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - refer to PALM or file wrapper  
NUMBER OF SEQ ID NOS: 4031  
SOFTWARE: Patentln Ver. 2.0  
SEO ID NO: 1163  
LENGTH: 425  
TYPE: PRT

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: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: SITE
: LOCATION: (140)
: OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
: NAME/KEY: SITE
: LOCATION: (196)
: OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
: NAME/KEY: SITE
: LOCATION: (351)
: OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
: NAME/KEY: SITE
: LOCATION: (368)
: OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-877-1163

Query Match
Best Local Similarity 11.5%; Score 68.5; DB 10; Length 425;
Matches 22; Conservative 11; Mismatches 46; Indels 7; Gaps 2;

Q1 3 GPGGTSVAPPEEVEYPCGGRIVVEY----CEPCGFEATYLELASAVKEQYPCIEIES 57
P1 291 GPPGAGPPPPSPGADPPSGAPIGGRFDROASACGCFYNADYLARARLAGELAGOEIEE 350
Q1 58 RLGGTGAEEI--EINGQLVFSKLENG 81
DB 351 XLEGLVMDVFLRFSGKLFRAYERPG 376

RESULT 10
US-10-163-214-2
: Sequence 2, Application US//10163214
: Publication No. US20030097688A1
: GENERAL INFORMATION:
: APPLICANT: Allen, Stephen M.
: APPLICANT: Broglie, Karen E.
: APPLICANT: Butler, Katherine H.
: APPLICANT: Thorpe, Catherine J.
: TITLE OF INVENTION: Starch Synthase Isoform V
: FILE REFERENCE: B01520 US NA
: CURRENT APPLICATION NUMBER: US/10/163,214
: PRIOR FILING DATE: 2002-06-05
: PRIOR APPLICATION NUMBER: 60/297,099
: PRIOR FILING DATE: 2001-06-08
: NUMBER OF SEQ ID NOS: 13
: SOFTWARE: Microsoft Office 97
: SEQ ID NO 2
: LENGTH: 909
: TYPE: PRT
: ORGANISM: Zea mays
US-10-163-214-2

Query Match
Best Local Similarity 11.4%; Score 68; DB 9; Length 909;
Matches 22; Conservative 14; Mismatches 34; Indels 12; Gaps 3;

Q1 21 SGVRIVVEYCEPCGFEATYLELASAVKEQYPCIEIESRLGGTGAEEIINGQLVFSKLEN 80
DB 791 SDMFVPSMFEEPCG-----LTQVMYAMRIGSVPRVRRGTGLNDVFLDDETFIMEVYN 843
Q1 81 GGFPY-----EKDLIAIRRASN 98
DB 844 -GTFPLKADEODFCNALERAFN 864

RESULT 11
US-09-738-626-6207
: Sequence 6207, Application US/09738626
: Publication No. US20020197605A1
: GENERAL INFORMATION:
: APPLICANT: NAKAGAWA, SATOSHI
: APPLICANT: MIZOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
```

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: APPLICANT: HAYASHI, MIKIRO
: APPLICANT: OCHIAI, KEIKO
: APPLICANT: YOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAOKO
: APPLICANT: SENOH, AKIHIRO
: APPLICANT: IKEDA, MASATO
: APPLICANT: OZAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738,626
: PRIOR FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: JP 00/159162
: PRIOR FILING DATE: 2000-04-07
: PRIOR APPLICATION NUMBER: JP 00/280988
: PRIOR FILING DATE: 2000-08-03
: NUMBER OF SEQ ID NOS: 7059
: SOFTWARE: PatentIn ver. 3.0
: SEQ ID NO 6207
: LENGTH: 228
: TYPE: PRT
: ORGANISM: Corynebacterium glutamicum
US-09-738-626-6207

Query Match
Best Local Similarity 11.2%; Score 67; DB 9; Length 228;
Matches 27; Conservative 16; Mismatches 45; Indels 10; Gaps 4;

Q1 15 FEVEPGSGRIVVEYCEPCGFEATY---LELASAVKEQY----PCIEIESRLGGTGAEEI 67
DB 48 EEIEKGADLVIGSRV-PCGETVNMPPARRELLSRGNKNIYSVALGAGINDMTAGYKARR 106
Q1 68 EINGQLVFSKLENGGFPYEKDLIEAIRRASNGETLEKI 105
DB 107 FLEHLDFEELSMAGYIFQVDV--AFRAIKGQFDVREV 142

RESULT 12
US-09-862-179A-44
: Sequence 44, Application US/09862179A
: Patent No. US20020147306A1
: GENERAL INFORMATION:
: APPLICANT: Lin, Danny
: APPLICANT: Pawson, Anthony
: TITLE OF INVENTION: PEPTIDES THAT MODULATE THE INTERACTION OF B CLASS EPHRINS
: FILE REFERENCE: MTS1-P01-009
: CURRENT APPLICATION NUMBER: US/09/862,179A
: CURRENT FILING DATE: 2001-05-21
: NUMBER OF SEQ ID NOS: 44
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 44
: LENGTH: 1379
: TYPE: PRT
: ORGANISM: Caenorhabditis elegans
US-09-862-179A-44

Query Match
Best Local Similarity 11.2%; Score 67; DB 10; Length 1379;
Matches 18; Conservative 7; Mismatches 28; Indels 4; Gaps 1;

Q1 6 GQISVAPP-----EEVEPGSGRIVVEYCEPCGFEATYLELASAVKEQYPCIEIESR 58
DB 1062 GSSEKAPPPLPPHUSQRRSGSGNWFDYGEYPGLIPYPHNTSGYESYADSELYDR 1118

RESULT 13
US-09-905-291A-339
: Sequence 339, Application US/09905291A
: Patent No. US20020160374A1
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
```

```

1 APPLICANT: Ashkenazi, Avi
2 APPLICANT: Botstein, David
3 APPLICANT: Desnoyers, Luc
4 APPLICANT: Eaton, Dan L.
5 APPLICANT: Ferrara, Napoleone
6 APPLICANT: Filvaroff, Ellen
7 APPLICANT: Fong, Sherman
8 APPLICANT: Gao, Wei-Qiang
9 APPLICANT: Gerber, Hanspeter
10 APPLICANT: Gerritsen, Mary E.
11 APPLICANT: Goddard, A.
12 APPLICANT: Godowski, Paul J.
13 APPLICANT: Grimaldi, Christopher J.
14 APPLICANT: Gurney, Austin L.
15 APPLICANT: Hillan, Kenneth, J.
16 APPLICANT: Kljavin, Ivar J.
17 APPLICANT: Mather, Jennie P.
18 APPLICANT: Pan, James
19 APPLICANT: Paonli, Nicholas F.
20 APPLICANT: Roy, Margaret Ann
21 APPLICANT: Stewart, Timothy A.
22 APPLICANT: Tumas, Daniel
23 APPLICANT: Williams, P. Mickey
24 APPLICANT: Wood, William, I.
25 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
26 FILE REFERENCE: 10466-14
27 CURRENT APPLICATION NUMBER: US/09/905,291A
28 CURRENT FILING DATE: 2001-07-12
29 PRIOR APPLICATION NUMBER: PCT/US00/04414
30 PRIOR FILING DATE: 2000-02-22
31 PRIOR APPLICATION NUMBER: US 60/143,048
32 PRIOR FILING DATE: 1999-07-07
33 PRIOR APPLICATION NUMBER: US 60/145,698
34 PRIOR FILING DATE: 1999-07-26
35 PRIOR APPLICATION NUMBER: US 60/146,222
36 PRIOR FILING DATE: 1999-07-28
37 PRIOR APPLICATION NUMBER: PCT/US99/20594
38 PRIOR FILING DATE: 1999-09-08
39 PRIOR APPLICATION NUMBER: PCT/US99/20944
40 PRIOR FILING DATE: 1999-09-13
41 PRIOR APPLICATION NUMBER: PCT/US99/21090
42 PRIOR FILING DATE: 1999-09-15
43 PRIOR APPLICATION NUMBER: PCT/US99/21547
44 PRIOR FILING DATE: 1999-09-15
45 PRIOR APPLICATION NUMBER: PCT/US99/23089
46 PRIOR FILING DATE: 1999-10-05
47 PRIOR APPLICATION NUMBER: PCT/US99/28214
48 PRIOR FILING DATE: 1999-11-29
49 PRIOR APPLICATION NUMBER: PCT/US99/28313
50 PRIOR FILING DATE: 1999-11-30
51 PRIOR APPLICATION NUMBER: PCT/US99/28564
52 PRIOR FILING DATE: 1999-12-02
53 PRIOR APPLICATION NUMBER: PCT/US99/28565
54 PRIOR FILING DATE: 1999-12-02
55 PRIOR APPLICATION NUMBER: PCT/US99/30095
56 PRIOR FILING DATE: 1999-12-16
57 PRIOR APPLICATION NUMBER: PCT/US99/30911
58 PRIOR FILING DATE: 1999-12-20
59 PRIOR APPLICATION NUMBER: PCT/US99/30999
60 PRIOR FILING DATE: 1999-12-20
61 PRIOR APPLICATION NUMBER: PCT/US00/00219
62 PRIOR FILING DATE: 2000-01-05
63 NUMBER OF SEQ ID NOS: 423
64 SEQ ID NO 339
65 LENGTH: 772
66 TYPE: PRT
67 ORGANISM: Homo Sapien
68 US-09-905-291A-339
69
70 Query Match 11.1% Score 66.5 DB 9: Length 772:
71 Best Local Similarity 25.6% Pred. NO. 1.5e+02:
72 Matches 22: Conservative 11: Mismatches 46: Indels 7: Gaps 2:

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QY      58 RLCTGTGAFEL--ETNQLVFSKLENG 81
Db      698 ALGGLVMDVFLFKFSGLHLFRAVERG 723

RESULT 14
US-09-902-853-339
: Sequence 339, Application US/09902853
: Publication No. US20020192659A1
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Holstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertschen, Mary E.
: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kijavini, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10406-14
: CURRENT APPLICATION NUMBER: US/09/902,853
: CURRENT FILING DATE: 2001-07-10
: PRIOR APPLICATION NUMBER: US/09/665,350
: PRIOR FILING DATE: 2000-09-18
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20564
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: 1999-11-30
: PRIOR APPLICATION NUMBER: PCT/US99/28564
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/28565
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: 1999-12-16

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PRIOR APPLICATION NUMBER: PCT/US99/30911  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US99/30999  
 PRIOR FILING DATE: 1999-12-20  
 PRIOR APPLICATION NUMBER: PCT/US00/00219  
 PRIOR FILING DATE: 2000-01-05  
 NUMBER OF SEQ ID NOS: 423  
 SEQ ID NO: 339  
 LENGTH: 772  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-09-902-853-339

Query Match 11.1% Score 66.5: DB 9: Length 772:  
 Best Local Similarity 25.6% Pred. No. 1.5e+02:  
 Matches 22: Conservative 11: Mismatches 46: Indels 7: Gaps 2:

OY 3 GEPGQTSVAPPPEVEBPGSGVRIVVEY-----CEPCGFEATYLELSAVKEQYPIETIES 57  
 Db 638 GPPGAGPDPSPGADPSRCAPIGGRFDROASAECCFTYNADYLAARARLAGELAGOEDEE 697  
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 698 ALEGLEVMDFLRFSGLHFRFAVEPG 723

RESULT 15  
 US-09-907-824-339  
 Sequence 339, Application US/09907824  
 Publication No. US20020197671A1  
 GENERAL INFORMATION:  
 APPLICANT: Genentech, Inc.  
 APPLICANT: Ashkenazi, Avi  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Flivaroff, Ellen  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gao, Wei-Qiang  
 APPLICANT: Gerbel, Hanspeter  
 APPLICANT: Gerlitsen, Mary E.  
 APPLICANT: Goddard, A.  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, Christopher J.  
 APPLICANT: Guiney, Austin L.  
 APPLICANT: Hillen, Kenneth J.  
 APPLICANT: Kujavlin, Ivar J.  
 APPLICANT: Mather, Jennie P.  
 APPLICANT: Pan, James  
 APPLICANT: Raoul, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Numa, Daniel  
 APPLICANT: Williams, P. Mickey  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: 10466-14  
 CURRENT APPLICATION NUMBER: US/09/907,824  
 PRIOR FILING DATE: 2001-07-17  
 PRIOR APPLICATION NUMBER: 09/665,350  
 PRIOR FILING DATE: 2000-09-18  
 PRIOR APPLICATION NUMBER: PCT/US00/04414  
 PRIOR FILING DATE: 2000-02-22  
 PRIOR APPLICATION NUMBER: US 60/143,048  
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 PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: US 60/146,222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: PCT/US99/20594  
 PRIOR FILING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/20944  
 PRIOR FILING DATE: 1999-06-13  
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 PRIOR FILING DATE: 1999-09-15  
 PRIOR APPLICATION NUMBER: PCT/US99/21547  
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 PRIOR FILING DATE: 2000-01-05  
 NUMBER OF SEQ ID NOS: 423  
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 ORGANISM: Homo Sapien  
 US-09-907-824-339

Query Match 11.1% Score 66.5: DB 9: Length 772:  
 Best Local Similarity 25.6% Pred. No. 1.5e+02:  
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OY 3 GEPGQTSVAPPPEVEBPGSGVRIVVEY-----CEPCGFEATYLELSAVKEQYPIETIES 57  
 Db 638 GPPGAGPDPSPGADPSRCAPIGGRFDROASAECCFTYNADYLAARARLAGELAGOEDEE 697  
 OY 58 RLGGTGAFFI--EINGOLVSKLENG 81  
 Db 698 ALEGLEVMDFLRFSGLHFRFAVEPG 723

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